

# CURRICULUM VITAE

## PAVEL DEMINE

**Address (work):** CEA Saclay  
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**Born:** July 21, 1976 in Moscow, Russia.

**Marital Status:** Single.

**Citizenship:** Russian, French Resident Alien.

### Education:

*Postgraduate* Nov. 2002. **Joseph Fourier University**, Grenoble, France.  
Ph.D. in Physics.

*Undergraduate* Dec. 1998. **Moscow State Engineering Physics Institute**, Moscow, Russia.  
Graduated with Honours Diploma in Nuclear Physics/Particle Physics.

### Professional Experience:

01/03 - 06/04 **Postdoc**, CEA - DAPNIA - Service de physique des particules, Saclay, France.  
Contact: Dr. Christophe Royon.

- jet triggers efficiencies analysis
- selection of data for QCD and Jet Energy Scale groups
- measurement of the dijet mass spectrum at DØ  
and extension of the analysis to high rapidity
- study of diffractive production of Higgs boson

10/99 - 11/02 **Graduate student**, Joseph Fourier University, Grenoble, France.  
Thesis Title: Study of the tri-lepton events in the Run II data of the DØ experiment at the Tevatron (FNAL, USA). Interpretation in the R-parity violating supersymmetry framework (lambda coupling).  
Thesis Advisor: Professor Gerard Sajot.

- search for supersymmetric particles
- electron identification at DØ
- heavy flavor jets identification at DØ

01/99 - 06/99 **Visitor**, Institut des Sciences Nucléaires, Grenoble, France.  
Advisor: Professor Gerard Sajot.

09/97 - 12/98 **Undergraduate student**, Moscow State Engineering Physics Institute (Technical University), Moscow, Russia.  
Thesis Title: Fractal and 4-dimensional characteristics of the inelastic pion-proton interactions at initial momentum 3.9 GeV/c.  
Thesis Advisor: Professor Felix M. Sergeev.

### Teaching Experience:

09/96 - 05/97 Two semesters C++ Programming Language, Centre for Youth Science and Technology, Moscow, Russia.

### International Schools:

08/01 - 09/01 European School of High-Energy Physics, Beatenberg, Switzerland.

**Presentations at Workshops:***Dijet Mass Spectrum Analysis at DØ*

16 Jun. 2003      Workshop DØ 2003, Beaune, France.

*Search for R-parity Violating Supersymmetry at DØ*

14 Dec. 2001      DØ New Phenomena Workshop, FNAL.

29 Nov. 2001      DØ-France Group Meeting, Strasbourg, France.

*Heavy Flavor Identification at DØ*

20 Dec. 2001      DØ Muon Id Workshop, CEA, Saclay, France.

30 Nov. 2001      DØ-France Group Meeting, Strasbourg, France.

25 Jan. 2001      DØ-France Group Meeting, Marseille, France.

**Presentations at Conferences:**

- Recent QCD results from the CDF and DØ experiments at the Tevatron, P. Demine (for the DØ collaboration), published in the proceedings of “XXXIII International Symposium on Multiparticle Dynamics”, Acta Physica Polonica B 35 101 (2004)
- Recent Results From the DØ Experiment at the Tevatron, P. Demine (for the DØ collaboration), published in the proceedings of “New Trends in HEP 2003”, Ukrainian Journal of Physics 48 1158 (2003)
- The fractal Hurst's law in pion-proton interactions at initial momentum 3.9 GeV/c, V. S. Demidov, P. Demine, V. I. Mikhailichenko, V. A. Okorokov, A. K. Ponosov, F. M. Sergeev. published in the proceedings of “Workshop MEPHI-99”, January 18-22, part 4, 168-169 (1999)
- The relativistic-invariant analysis of the forming of the pion jets in the inelastic pion-proton interaction at initial momentum 3.9 GeV/c, P. A. Demine, V. I. Mikhailichenko, V. A. Okorokov, A. K. Ponosov, F. M. Sergeev, published in the proceedings of “Workshop MEPHI-99”, January 18-22, part 4, 170-171 (1999)

**Key Informatics Skills:***Programming Languages*

C++, Fortran, Forth, Java, Objective C, Smalltalk, Pascal, Assembler for Intel 80x86.

*Programs for Numerical Analysis*

PAW, ROOT, MathCad, MatLab.

*Operating systems*

POSIX-compatible systems, Microsoft DOS, Microsoft Windows

*Other Experiences*

I have an experience in assembling computers, creating devices operated by computers and in developing of software for them.

**Foreign Languages:**

*Russian*              native language

*French*              written and spoken fluently

*English*             written and spoken fluently